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November 18, 1992

Mary Beth Novy U.S. Environmental Protection Agency 77 West Jackson Blvd. HSRW-6J Chicago, IL 60604

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RE:

Albion-Sheridan Township Landfill (11-5LAN) Remaining Landfill Boring Recommendations

Dear Mary Beth:

The magnetometer survey data has been preliminarily reviewed along with existing data in order to select additional landfill boring locations. The magnetometer survey was performed over four areas that were selected during a meeting with WWES, U.S. EPA and MDNR. The areas are referred to as "Area A", "Area B", "Area C", and "Area D". These are shown on the attached map. Controlly, the magnetometer survey results indicated that there is a great deal of metal buried in the landfill, which was anticipated.

Area A was located immediately south of what was preliminarily identified as the metal plating sludge area. The magnetometer data showed a large areal anomaly within Area A. Coupled with the fact that the metal plating sludge area is in the apparent upgradient direction, WWES recommends a landfill boring south-south west of Area A at approximately 6150N, 4600E.

Area B is located south of Area A. There are numerous anomalies throughout Area B. No single anomaly stood out as being of particular significance. Additionally, there are already two well nests adjacent and south of Area B, MW-4 and MW-6. For these reasons, WWES does not recommend an additional landfill boring in or around this area.

Area C is located in the central eastern portion of the Landfill. This is the area where the removal action located and removed 55-gallon drums in the past. Two-half buried drums were discovered during the magnetometer survey in the southern portion of Area C. There was a great deal of surface metal in this area, making it difficult to interpret the magnetometer data. However, there is a medium size, high intensity anomaly in the southern portion of Area C that correlates with the location of the drums. WWES

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recommends a landfill boring south-southwest of Area C at approximately 6020N, 4800E. This location may change due to accessibility.

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Area D is located south of Area B. There appears to be a gradational anomaly associated with this area, however, no single anomaly stood out as being of particular significance. Further data reduction and examination may alter our preliminary assessment. However, at this time, WWES does not recommend a landfill boring location at this time.

The initial landfill boring was placed at approximately 6400N, 4600E within what is suspected to be the metal plating sludge area based on the EM data and the historical evidence. If we place the remaining borings in the locations as proposed, we appear to be concentrating our landfill borings in the northern half of the site. If one reviews the ground water flow maps and the vertical sampling data, however, the impact appears to be greatest near MW-3 and MW-4. This may indicate that the bulk of the contamination is originating from the northern or central portions of the landfill. Therefore, the proposed landfill borings may actually be quite appropriate.

Sincerely yours,

WW ENGINEERING & SCIENCE Environmental Services Division

Elizabeth Uhl

Site Project Manager

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cc: Charlene McGue, WWES

Rick Trippel, WWES

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